SRM 06/12

kV dependent max mA values for exposure times ≤ 100ms in combination with Optimus 65kW

kV	SF [µA]	LF [µA]	kV	SF [µA]	LF [µA]	kV	SF [µA]	LF [µA]	kV	SF [µA]	LF [µA]
40	250000	659000	70	485110	900000	**100**	**350000**	**650000**	130	269230	500000
41	257837	673775	71	492957	900000	101	346534	643564	131	267175	496183
42	265674	688550	72	486111	900000	102	343137	637254	132	265151	492424
43	273511	703325	73	479452	890410	103	339805	631067	133	263157	488721
44	281348	718100	74	472972	878378	104	336538	625000	134	261194	485074
45	289185	732875	75	466666	866666	105	333333	619047	135	259259	481481
46	297022	747650	76	460526	855263	106	330188	613207	136	257352	477941
47	304859	762425	77	454545	844155	107	327102	607476	137	255474	474452
48	312696	777200	78	448717	833333	108	324074	601851	138	253623	471014
49	320533	791975	79	443037	822784	109	321100	596330	139	251798	467625
50	328370	806750	80	437500	812500	110	318181	590909	140	250000	464285
51	336207	821525	81	432098	802469	111	315315	585585	141	248226	460992
52	344044	836300	82	426829	792682	112	312500	580357	142	246478	457746
53	351881	851075	83	421686	783132	113	309734	575221	143	244755	454545
54	359718	865850	84	416666	773809	114	307017	570175	144	243055	451388
55	367555	880625	85	411764	764705	115	304347	565217	145	241379	448275
56	375392	895400	86	406976	755813	116	301724	560344	146	239726	445205
57	383229	900000	87	402298	747126	117	299145	555555	147	238095	442176
58	391066	900000	88	397727	738636	118	296610	550847	148	236486	439189
59	398903	900000	89	393258	730337	119	294117	546218	149	234899	436241
60	406740	900000	90	388888	722222	120	291666	541666	150	233333	433333
61	414577	900000	91	384615	714285	121	289256	537190			
	422414	900000	92	380434	706521	122	286885	532786			
	430251	900000	93	376344	698924	123	284552	528455			
	438088	900000	94	372340	691489	124	282258	524193			
	445925	900000	95	368421	684210	125	280000	520000			
	453762	900000	96	364583	677083	126	277777	515873			
	461599	900000	97	360824	670103	127	275590	511811			
	469436	900000	98	357142	663265	128	273437	507812			
	477273	900000	99	353535	656565	129	271317	503875			

These are the default values of the tube data file TUBE_R2.TDL or TUBE_R3.TDL.
Typically there are no changes after adaptation except there are reductions due to the max generator power (Optimus 50kW = 650mA max) or if the filament does not have its full emission anymore (e.g. from shorted filament loops).
The red marked emission current values (at 71kV SF and 57kV LF) are the max emission currents at a kV value from which on the filament current can be reduced to achieve its max load performance.